

# Eastern Arizona Amateur Radio Society

EST. 1974

[www.eaars.com](http://www.eaars.com)

INC.



[facebook.com/k7ear](https://facebook.com/k7ear)

Club Address: EAARS, PO Box 398, Soloman. AZ 85551



September 2016

*Integrity is the foundation upon which all other values are built.*

## Welcome New EAARS Members!

KC8KBQ	Ernest
KD7PCE	Steve
KF7JUX	William
KI7DZU	Charles
WB6HNY	Bill

### LIKE EAARS on Facebook



EAARS has a presence on Facebook and you are invited to LIKE the page. This is a great media to quickly share news, photos and events that are EAARS related or might be interesting to the members. If you utilize "Notifications" on the EAARS Facebook page, you can receive club updates AS THEY HAPPEN. To reach the page, please visit [facebook.com/k7ear](https://facebook.com/k7ear) and LIKE the page. Facebook accounts are not needed to "Visit" the page, you will only be able to read and not participate.

Like us today.

### EAARS Open Repeaters

PL 141.3 unless noted otherwise

Echolink: 614350 IRLP: 7787

#### Heliograph Peak at Safford, AZ:

146.860, 440.700 Linked  
146.900

#### Jacks Peak at Silver City, NM:

145.210 Linked

#### West Peak at Ft Thomas, AZ:

145.350 Access to link to network

#### Pinal Peak at Globe, AZ:

145.410 Linked

#### South Mt at Alpine, AZ:

145.270 Linked

#### Caballo Mt at TorC, NM:

145.470 Linked

#### Greens Peak at Show Low, AZ:

146.700 Linked

#### Little Florida at Deming, NM:

147.060 Linked

#### Mule Mt at Bisbee, AZ:

147.080 Linked

#### Mt. Lemmon at Tucson, AZ:

147.160 Linked

#### Guthrie Peak, at Clifton, AZ:

147.280 Linked



# Make Room for Those Young'uns!

Let's showcase a young ham every month. Share your story! Email me!  
THIS MONTH IS . . . . .

## Mr Jacob KI7CTQ



Hello, my name is Jacob. I am 12 years old and going in to 7th grade. I went to Middle School for 6th grade in Tucson and have now moved to Washington to finish middle and high school.

My Nana and Gramps are ham radio operators. They got me interested in ham radio. When I got interested Nana and Gramps said that if I passed my technician test they would buy me a Baofeng ham radio. I wanted a green camo radio. I started studying and took Mr Joe's (K3TYE) radio class. I earned my technician license at the 2016 RST Ham Fest. My call is KI7CTQ. My stepdad also took the class and now we are both hams! His call is KI7DIZ,

My dad is an US Navy Officer. I started flying alone when I was 5 years old. I have lived in Hawaii, Maryland, Arizona and now Washington. I have visited a few other states, California, Nevada and Florida.

I have just moved from Arizona to Washington. Washington has been amazing. It has so many trees, perfect weather, and it rains like once a week. Since there is perfect weather, I can finally play outside during the day. It is not hot like Arizona! It was an amazing move!

Camping is also really fun. I went camping once with friends and I shot a .22 pistol. It was fun. I saw rivers and creeks. It was beautiful. In Arizona, camping was good. I mostly went with Gramps and Nana and I got to take a friend. My Nana let us roam as long as we kept in touch by radio. We had some good experiences every camping trip. Now I get to enjoy Washington camping!

I have competed in a few sports, my favorite is Tai Kwando. I have been studying that sport since I was 5 years old. My mom got me into ATA because I will keep my belt level where ever I go. I have a blue belt right now and I need three or four to get my black belt.

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## Mr Jacob KI7CTQ continued from page 2

My step dad and I are looking into the Lynwood, WA repeaters. We need to start getting on the air in our town. Gramps is going to give us echolink instructions so we can talk to them in Tucson. That's all for now. I have one more month before school starts. School starts the day after Labor Day, like the good old days.



I am pretty proud of this Awesome kid. He happens to be my first born grandson! This kid has a great head on his shoulders and is in the Honors program at school. He carries a big piece of my heart wherever he goes! Shhh he doesn't know I included all these pictures. How can I not? :- ) ~Angie

## 2016 Officers and Staff

### Board Officers

President	Dave Wells	N7AM
Vice President	Dan Quaintance	AF7EF
Secretary/Treasurer	Larry Griggs	N5BG

### Staff

Site Trustee	Joe Montierth	K7JEM
Net Manager	Chris Buchanan	N7JND
Newsletter Editor	Angie Buchanan	N7EMB
ARCA Rep	Byron McCabe	AA7BM

### Net Control Operators

Rick	KE7EDP	1st Sunday
Angie	N7EMB	2nd Sunday
Bob	KD7LMV	3rd Sunday
Chris	N7JND	4th Sunday
Karl	N7DMA	5th Sunday and fill in

# Gals on the Air!

Calling all Gals of any class . . . Join us every Monday night for the  
**Gals Night Net @ 7:30 pm (AZ) on the EAARS system!**

## Upcoming Events

Would you like to see your event posted for the membership to see?

Email your information to [emberfire@cox.net](mailto:emberfire@cox.net).

**September 3, 2016 - Ft Bowie Nat'l Park Service 100th Celebration**

**September 17, 2016 - EAARS Picnic in Safford**

**October 16, 2016 - Making Strides Against Breast Cancer in Tucson**

**October 16, 2016 - Semi-Annual Tucson Ham Picnic @ Reid Park**

### WEEKLY EAARS' NETS

#### Everyday:

Down under Net – 4:15am

Weather Net – 5:30am

NTS Traffic Net – 6:30pm

#### Sunday:

EAARS Net – 7:00pm

#### Monday:

Gal's Night Net – 7:30pm

#### Wednesday:

**Skywarn Net** – During Monsoon, Every Wednesday at 7:30pm.

Off Season, every second Wednesday of month at 7:30pm

#### Saturday:

**ERC (Emergency Response Communication) Net** - 8:45 am, 2nd Saturday of the month (20-25 min duration)

### EAARS PICNIC SATURDAY, SEPT 17th 2:00 pm

If you haven't RSVP'd for the **EAARS PICNIC**, best do it quick. Your RSVP will be accepted until **Sept 8th!** Meat needs to be ordered! RSVPs should be sent to Larry N5PG at [lgriggs@aznexus.net](mailto:lgriggs@aznexus.net).

**Picnic is at the  
Discovery Park  
1651 Discovery Park Blvd  
Safford, AZ 85546**



## The Magic of Radio

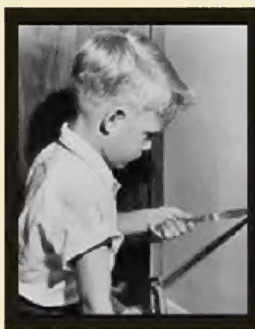
By David Myers AF7UF

"Any sufficiently advanced technology is indistinguishable from magic." Arthur C. Clarke

Since I was 3 years old I have had an overwhelming fascination for electricity and electronics. I am not a writer, but I hope I can convey some of the early feelings I have had with this magical force to you and maybe awaken the feelings and memories you had when you were first introduced to this magic.

When I was three, I had my first experience of the shock and awe of this magic. I don't remember a lot about the details except that I was inserting thumbtacks into an electric outlet and the third tack touched the first and caused what I experienced as a flash explosion and a burn on my finger. That probably should have cured me of any interest in this type of magic except the care and love of my mother turned a childhood catastrophe into a positive experience.

This isn't me but I guess electric outlets are a universal source of fascination for youngsters.



My next memory is my grandfather W6DCQ sitting in his kitchen listening to scratchy beeps and claiming to get messages which he wrote down on slips of paper on the kitchen desk next to the kitchen table. This was before I could even write, print or read so, again a lot of magic was being performed before my eyes! Then this guy, whose name was Guy, would tap out what he claimed was a reply to these messages he had managed to pull out of the air. Oddly, I cannot recall any radio being present but obviously there must have been one. Another thought I had at the time was if the messages were noisy scratchy beeps, why were the replies quiet clicks of a knob on his desk?



My grandmother holding me between the kitchen table and desk.

The next Magic trick was a few years later. My grandfather was talking to someone in Chicago from his home in Phoenix. He had built a den onto his home by then and had a bigger desk with several radio boxes on it. He let me talk to the Chicago person who said he was over a thousand miles away. I was about eight at that time. I didn't know how far away a thousand miles was, but I did know that it took about 2½ hours of driving to reach my grandfather's home in Phoenix from my

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home in Tucson and I was told that distance was 120 miles. I also knew I could count to 120 but I had never been patient enough to count to one thousand. My grandfather had a world map which he put little light bulbs around to show the direction of his (what I know now was a) Yagi beam. He showed me Chicago and Phoenix which were only a few inches apart on that map which was about 2X3 feet in size.

My grandfather, the magician, was Guy N Carter. He was one of the first hams in Arizona. His call sign was W6DCQ. He moved to Phoenix from California in 1915. He was a radio amateur at that time. Later, he was a radio operator on a submarine in WWI. Amateur radio was outlawed from 1917 to 1922. The next listing I find for him is in 1927 as 6DCQ residing in Phoenix with a 30 watt transmitter. The next reference is in 1929 at the same residence he lived in until his death in 1971. That was at 1436 E Fillmore in Phoenix.



My grandmother with her Cadillac in front of my grandparent's home at 1436 E Fillmore Phoenix.

By 1929 his call had changed to W6DCQ. In the 1930s he set up a radio dispatch system for the Phoenix fire department. He gave me my first shortwave receiver, a Hallicrafters S 38, which I still have. Thanks to Dick Jones WOPZD for tracking down my grandfather's call sign.



W6DCQ with the Phoenix Fire Department

I got my first amateur license in 1965 WN7GTR. I used a BC 348 with an 80 meter ARC 5 and a borrowed Heath kit Tower. The Morse code requirement prevented upgrading to a general license. In 1993 I got a 5 WPM Technician KB7SLI. I talked to Ethiopia on a Radio Shack 10 meter transceiver. Again the Morse code requirement prevented upgrading. The KB7SLI license expired in 2003.

***Happiness is not an accident.  
Nor is it something you wish for.  
Happiness is something you design.***



## Raising An Antenna - de Byron AA7BM, San Simon, AZ

I needed to raise my 30' tower with a vertical antenna mounted at approximately 35' AGL (above ground level). It was just a bit too much for me to just push up I had to build a way to raise it into the vertical position.

I purchase a winch so I could have a permanent fixture to raise and lower it in the future. I cut the 4x4 into two 48" lengths, took a couple of scrap pieces of 2x4 and mounted the two pieces at a right angle, but back about an inch from one end, using some 3" dry wall screws (4 screws on each side of the joint – see photo. Took a couple of pieces of 2x2 about 30-36" long and put at an angle from one 4x4 to the other using a single dry wall screw on each end.

Using 3 of the lag screws, I mounted the winch at the top outside of the vertical piece of 4x4, and used the last lag screw to mount the pulley onto the 1" projection of the bottom horizontal 4x4. I drilled a 3/16" hole in one end of the pipe, and mounted a 3/16 x 1-1/2 screw eye in it.

I ended up buying a winch, a 10' piece of 1" galvanized pipe, a 1" steel pipe "T", and 2 1"x10" steel pipe nipples, total cost to me about \$50.00. I used about 14 feet of 2x4, a standard hinge, 4 3/8x2" bolts (2 mounting the winch, 1 holding the pulley in place), 2 3/8x2: eye bolts for the diagonal cable.

I filled the winch with some 3/16 Dacron rope (use 1/8 Wire rope, if available) I had on hand, passed it under the pulley, and then passed it around the pipe, through the screw eye, back on the other side of the pipe, and tied it off snug against the pipe. I took some 1/4" nylon rope (again use 1/8" wire rope, if you have it) fastened it to the tower at about 25' up from the base, and connected it to the pipe at the screw eye with the pipe in a vertical position.

I used two short pieces of 1/2" pipe I had available and drove into the ground on each side of the pulley which will prevent the hoist from sliding forward and as I had it available, a 8" square block filled with concrete as an extra weight on the horizontal 4x4.

It pulled my tower right up without any problems. For transport I will pull the 4 re-bar anchors, loosen the diagonal cable, remove the diagonal brace, fold the vertical section down and slide into the truck.

I hope you found this interesting, and that it gives you an idea as to how you can build a simple portable device to help raise small towers for field use.





*Set peace of mind as your highest goal  
and organize your entire life around it.*

# Happy Labor Day!

## **National Park Service 100th Birthday!** **@ Fort Bowie National Historic Site** 3500 South Apache Pass Road, Bowie, AZ 85605 **Saturday, Sept 3rd, 2016**

Celebration begins at 11:00 am until 2:00 pm. B-Troop from Fort Huachuca (a historic reenactment troop) will perform and will have a special cemetery ceremony. Guided hikes of the grounds and history will be offered, as well as refreshments. And the best part is it's all FREE! Volunteer and bring your family and friends for a great family celebration day!

As per Dave's email, Fort Bowie would love to have EAARS set up for an On Air event for NPS 100th b'day. What an awesome place to have ham radio demonstrations! We need YOU to head up a team for this event. It is right around the corner so planning needs to be in motion ASAP!

If YOU are that person, please contact Dave Wells N7AM as soon as possible, to let him know that You will be leading this Team!

Let's help make this event a great big success for Fort Bowie!

You may contact Dave Wells on EAARS, Facebook or [dwells@aznex.net](mailto:dwells@aznex.net).

*Don't wish it were easier; wish you were better.*

*Don't wish for less problems; wish for more skills.*

*Don't wish for less challenges; wish for more wisdom.*

